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CER0520A

1882.5 MHz Monoblock LR Series BPF

Rev 0— Origin Date: July 17 – Revision Date: July 17, 2007

Features

- Low Ripple
- High Rejection
- Low Loss

Description

Surface mount, silver (Ag) coated ceramic filter. Developed for use in PCS repeater and base station applications, CTS Monoblock LR Series Filters are designed to minimize ripple and maximize rejection.

Weight: 9.5 grams typical

Material: Filter is composed of a ceramic block coated with Ag and a shield made of nickel silver plated steel.

Filter complies with RoHS standards.

Electrical Specifications

Parameter	Frequency MHz	Typical @ 25°C	Specification @ 25°C	Spec over -40°C to +85°C
Passband Iloss	1850 - 1915	-3.0	-3.7	-4.0
Ripple	1850 - 1915	1.70	2.0	2.2
Passband Return Loss @ Port 1	1850 - 1915	-13.5	-12.0	-12.0
Passband Return Loss @ Port 2	1850 - 1915	-13.5	-12.0	-12.0
Attenuation	1671 - 1756	-30.0	-20.0	-20.0
	1930 - 1995	43.0	-40.0	-40.0
Power into any port		3 Watt max		



Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

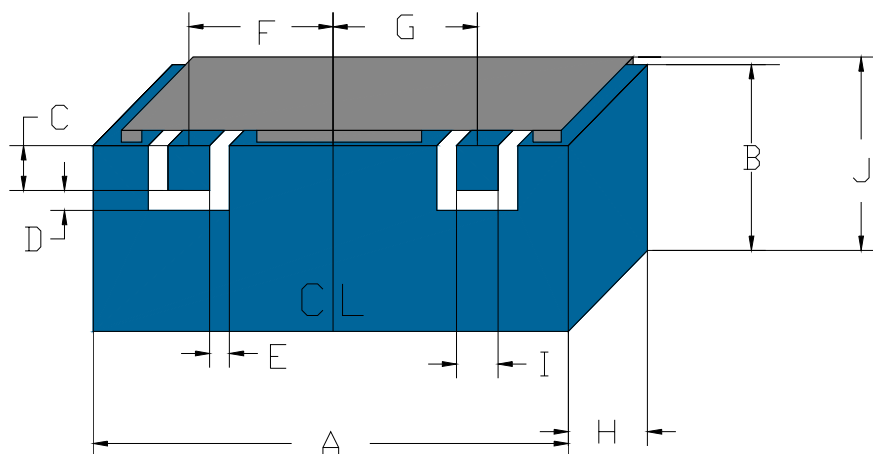
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

*This product is covered by one or more of the following U.S. and foreign patents including: US 4,692,726;US 4,742,562; US 4,800,348;US 4,829,274;US 5,146,193;EP 0573597;DE 0573597;FR 0573597;JP 508149/92;KR 142171;US 5,162,760;US 5,218,329;US 5,250,916;US 5,327,109;US 5,488,335;CA 2114029;FR 9306297;GB 2273393;JP 3205337;KR 115113;CN 93106228.4;US 5,512,866;EP 0706719;DE 0706719;FR 0706719;GB 0706719;CN 95190359.4;US 5,602,518;US 5,721,520;US 5,745,018;EP 0910875;DE 0910875;DK 0910875;FR 0910875;GB 0910875;JP 505182/98;KR 10-323013;US 5,994,978;US 6,462,629;CN 00810420.4;US 6,559,735;US 6,650,202;US 6,834,429. Other US and foreign patents pending.

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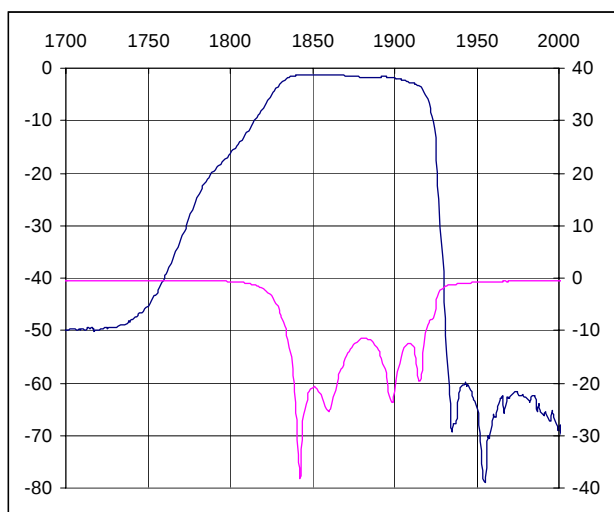
Mechanical Drawing

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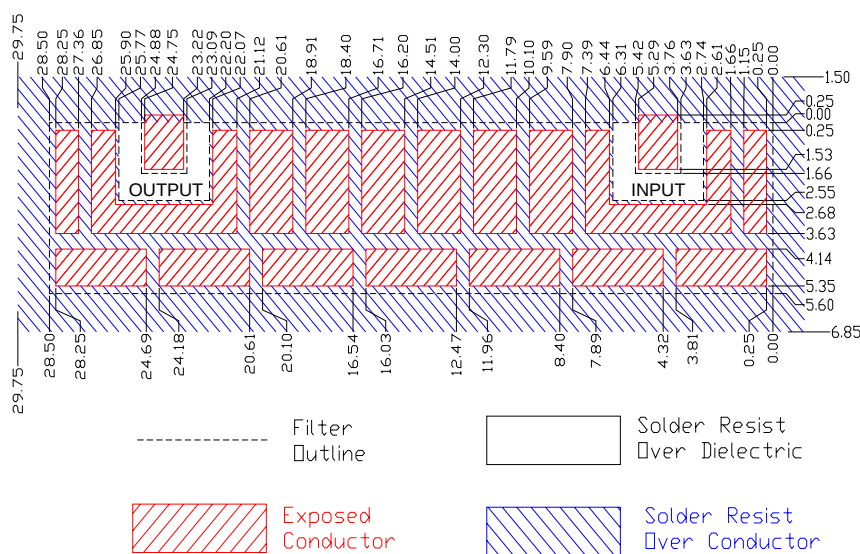


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	28.5	max
B	5.6	max
C	1.53	0.13
D	1.02	0.13
E	1.02	0.13
F	9.73	0.13
G	9.73	0.13
H	6.10	max
I	1.53	0.13
J	7.2	max

Electrical response

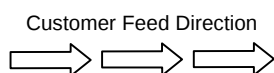


PCB Layout



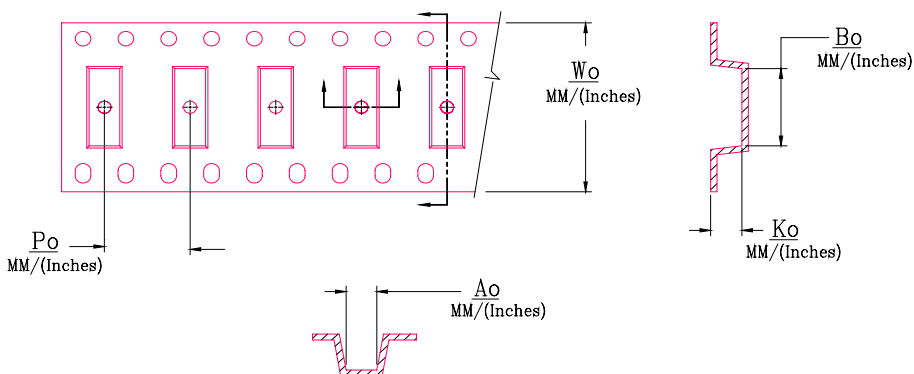
Packaging and Marking

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	2.5
REEL QUANTITY	ea.	500



Product Marking

CTS
520
YWW



MODEL NO.	Wo	Ao	Bo	Ko	Po
CER0520	44.0/(1.732)	7.90/(0.311)	28.20/(1.110)	6.00/(0.236)	12.0/(0.472)